WAN

ATCT GCTGCTTGCA AACAAAAAAA CCACCGCTAC CAGCGGTGGT TTGTTTGCCG GATCAAGAGC TACCAACTCT TTTTGCGAAG GAACTGGCTT CAGGERACCG CAGATACCAA ATACTGTCCT TCTAGTGTAG CCGTAGTTAG 151 GCCAECACTT CAAGAACTCT GTAGCACCGC CTACATACCT CGRETCTGCTA 201 ATCCTGTTAC CAGTGGCTGC TGCCAGTGGC GATAAGTCGT ØTCTTACCGG 251 GTTGGACTCA AGACGATAGT TACCGGATAA GGCGCAGCG& TCGGGCTGAA 301 CGGGGGGTTC GTGCACACAG CCCAGCTTGG AGCGAACQAC CTACACCGAA 351 CTGAGATACC TACAGCGTGA GCTATGAGAA AGCGCCÁCGC TTCCCGAAGG GAGAAAGGCG GACAGGTATC CGGTAAGCGG CAGGGTCGGA ACAGGAGAGC 401 451 GCACGAGGGA GCTTCCAGGG GGAAACGCCT GGTATCTTTA TAGTCCTGTC GGGTTTCGCC ACCTCTGACT TGAGCGTCGA TTTTTGTGAT GCTCGTCAGG 501 GGGGCGGAGC CTATGGAAAA ACGCCAGÇAA CGCCGAATTA CCGCGGTCTT 551 TCTCAACGTA ACACTTTACA GCGGCGCGTC ATTTGATATG ATGCGCCCCG 601 CTTCCCGATA AGGGAGCAGG CCAQTAAAAG CATTACCCGT GGTGGGGTTC 651 CCGAGCGGCC AAAGGGAGCA GACTCTAAAT CTGCCGTCAT CGACTTCGAA 701 GGTTCGAATC CTTCCCCCAC CACCATCACT TTCAAAAGTC CGAAAGAATC 751 TGCTCCCTGC TTGTGTGTTG GAGGTCGCTG AGTAGTGCGC GAGTAAAATT 801 TAAGCTACAA CAAGGCAAGG CTTGACCGAC AATTGCATGA AGAATCTGCT 851 TAGGGTTAGG CGTT/TTGCGC TGCTTCGCGA TGTACGGGCC AGATATACGC 901 GTTGACATTG ATTATTGACT AGTTATTAAT AGTAATCAAT TACGGGGTCA 951 TTAGTTCATA GCCCATATAT GGAGTTCCGC GTTACATAAC TTACGGTAAA 1001 TGGCCCGCÇT GGCTGACCGC CCAACGACCC CCGCCCATTG ACGTCAATAA 1051 TGACGTATGT TCCCATAGTA ACGCCAATAG GGACTTTCCA TTGACGTCAA 1101 TGGGJGGACT ATTTACGGTA AACTGCCCAC TTGGCAGTAC ATCAAGTGTA 1151 TCATATGCCA AGTACGCCCC CTATTGACGT CAATGACGGT AAATGGCCCG 1201 CÉTGGCATTA TGCCCAGTAC ATGACCTTAT GGGACTTTCC TACTTGGCAG 1251 TACATCTACG TATTAGTCAT CGCTATTACC ATGGTGATGC GGTTTTGGCA 1301 GTACATCAAT GGGCGTGGAT AGCGGTTTGA CTCACGGGGA TTTCCAAGTC 1351 TCCACCCCAT TGACGTCAAT GGGAGTTTGT TTTGGCACCA AAATCAACGG 1401 GACTITICCAA AATGTCGTAA CAACTCCGCC CCATTGACGC AAATGGGCGG **1**451 AATTCCTGGG CGGGACTGGG GAGTGGCGAG CCCTCAGATG CTGCATATAA 1501 1551 GCAGCTGCTT TTTGCCTGTA CTGGGTCTCT CTGGTTAGAC CAGATCTGAG CCTGGGAGCT CTCTGGCTAA CTAGAGAACC CACTGCTTAA GCCTCAATAA 1601 AGCTTCTAGA GATCCCTCGA CCTCGAGGGA TCTTCCATAC CTACCAGTTC

FIG. 1-1

(Ry R

TGCGCCTGCA GGTCGCGGCC GCGACTCTAG AGGATCTTTG TGAAGGAACC 1701 TTACTTCTGT GGTGTGACAT AATTGGACAA ACTACCTACA GAGATTTAAA 1751 GCTCTAAGGT AAATATAAAA TTTTTAAGTG TATAATGTGT TAAACTACTG 1801 1851 ATTCTAATTG TTTGTGTATT TTAGATTCCA ACCTATGGAA CTGATGAATG 1901 GGAGCAGTGG TGGAATGCCT TTAATGAGGA AAACCTGJ/T TGCTCAGAAG AAATGCCATC TAGTGATGAT GAGGCTACTG CTGACTCTCA ACATTCTACT 1951 CCTCCAAAAA AGAAGAGAAA GGTAGAAGAC CCÇAAGGACT TTCCTTCAGA ATTGCTAAGT TTTTTGAGTC ATGCTGTGTT JAGTAATAGA ACTCTTGCTT 2001 GCTTTGCTAT TTACACCACA AAGGAAAAAG CTGCACTGCT ATACAAGAAA 2051 2101 ATTATGGAAA AATATTCTGT AACCTTJATA AGTAGGCATA ACAGTTATAA TCATAACATA CTGTTTTTC TTACTCCACA CAGGCATAGA GTGTCTGCTA 2201 TTAATAACTA TGCTCAAAAA TTØTGTACCT TTAGCTTTTT AATTTGTAAA 2251 GGGGTTAATA AGGAATATTT GATGTATAGT GCCTTGACTA GAGATCATAA 2301 TCAGCCATAC CACATTTGTÁ GAGGTTTTAC TTGCTTTAAA AAACCTCCCA 2351 CACCTCCCC TGAACCTGAA ACATAAAATG AATGCAATTG TTGTTGTTAA CTTGTTTATT GCAGCTTATA ATGGTTACAA ATAAAGCAAT AGCATCACAA 2451 ATTTCACAAA TAAAGCATTT TTTTCACTGC ATTCTAGTTG TGGTTTGTCC 2501 AAACTCATCA ÁTGTATCTTA TCATGTCTGG ATCCTGTGGA ATGTGTGTCA GTTAGGGTØT GGAAAGTCCC CAGGCTCCCC AGCAGGCAGA AGTATGCAAA 2601 GCATGCATCT CAATFAGTCA GCAACCAGGT GTGGAAAGTC CCCAGGCTCC 2651 CCAGZÁGGCA GAAGTATGCA AAGCATGCAT CTCAATTAGT CAGCAACCAT 2701 AGTÉCCOCCC CTAACTCCGC CCATCCCGCC CCTAACTCCG CCCAGTTCCG 2751 CÉCATTCTCC GCCCCATGGC TGACTAATTT TTTTTATTTA TGCAGAGGCC 2801 GAGGCCGCCT CGGCCTCTGA GCTATTCCAG AAGTAGTGAG GAGGCTTTTT 2851 TGGAGGCCTA GGCTTTTGCA AAAAGCTAAT TC

FIG. 1-2

#### (60)METSERPHEPROCYSLYSPHEVALALASERPHELEULEUILEPHEASNVALSER, ŢĊĊĸĸĸĠĠŦĠĊĸĠŦĊŢĊĊĸĸĸĸĠĸĠĸŢŢĸĊĠĸĸŦĠĊĊŦŦĠĠĸĸĸĸĊŢĠĠĠĠŦĠĊĊŦŦĠĢĠŦ (120)SERLYSGLYALAVALSERLYSGLUILETHRASNALALEUGLUTHRTRPGLYALALEUGLY CAGGACATCAACTTGGACATTCCTAGTTTTCAAATGAGTGATGATATTGACGATATAAAA (180)GLNASPILEASNLEUASPILEPROSERPHEGLNWETSERASPASPILEASPASPILELYS 20 (240)TRPGLULYSTHRSERASPLYSLYSLYSILEALAGLNPHEARGLYSGLUL/SGLUTHRPHE 40 AAGGAAAAAGATACATATAAGCTATTTAAAAATGGAACTCTGAAAATTAAGCATCTGAAG (300)LYSGLULYSASPTHRTYRLYSLEUPYELYSASNGLYTHRLEULYS/LELYSHISLEULYS 60 <u>ACCGATGATCAGGATATCTACAAGGTATCAATATATGATACAAAAAGGAAAAAAATGTGTTG</u> (360)THRASPASPGLNASPILETYRLYSVALSERILETYRASPTHALYSGLYLYSASNVALLEU 80 GAAAAAATA TTTGATTTGAAGATTCAAGAGAGGGTCTCAAAAACCAAAGATCTCCTGGACT (420)GLULYSILEPHEASPLEULYSILEGLNGLUARGVALSERLYSPROLYSILESERTRPTHR 100 TGTATCAACACACCCTGACCTGTGAGGTAATGAATGGAATGACCCCGAATTAAACCTG CYSILEASNTHRTHRLEUTHRCYSGLUVALWETASNGLYTHRASPPROGLULEUASNLEU (480)120 ŢAŢÇAAĢAŢĞĠĞAAAÇAŢĊŤAAAAĊŢŢŢĊŤÇĄĠĄĠĞŢČĄŢĊĄĊĄĊĄĊAĊAĠŢĠĠĄĊĊĄĊĊ (540)TYRGLNASPGLYLYSHISLEULYSLEUSERØLNARGVALILETHRHISLYSTRPTHRTHR AGCCTGAGTGCAAAATTCAAGTGCACAGCAGGGAACAAAGTCAGCAAGGAATCCAGTGTC SERLEUSERALALYSPHELYSCYSTHPALAGLYASNLYSVALSERLYSGLUSERSERVAL (600)160 (660)GLUPROVALSERCYSPROGLULYSGLYLEUASPILETYRLEUILEILEGLYILECYSGLY 180 GGAGGCAGCCTCTTGATGGTCTTTGTGGCACTGCTCGTTTTCTATATCACCAAAAGGAAA (720)GLYGLYSERLEULEUMETYALPHEVALALALEULEUVALPHETYRILETHRLYSARGLYS 200 AAACAGAGGAGTCGGAGAAATGATGAGGAGCTGGAGACAAGAGCCCACAGAGTAGCTACT (780)LYSGLNARGSERARGARGASNASPGLUGLULEUGLUTHRARGALAHISARGVALALATHR GAAGAAAGGGGC/EGGAAGCCCCAACAAATTCCAGCTTCAACCCCCTCAGAATCCAGCAACT (840)GLUGLUARGGLYARGLYSPROGLNGLNILEPROALASERTHRPROGLNASNPROALATHR ŢĊĊĊĸĸĊŶĬĊĊŦĊĊŦĊĊĸĊĊĸĊĊŦĠĠŦĊĸţĊĠŦĬĊĊŎĠĊĸĊĊŦŸĠŦĊŸŦĊĠŦĊĊĊĊĠ (900)SERGLNHISPROPROPROPROPROGLYHISARGSERGLNALAPROSERHISARGPROPRO 260 CCTC/CTGGACACCGTGTTCAGCACCAGCCTCAGAAGAGGCCTCCTGCTCCGTCGGGCACA (960)PROPROGLYHISARGVALGLNHISGLNPROGLNLYSARGPROPROALAPROSERGLYTHR 280

FIG. 2-1

| 300 | CAAGTTCACCAGCAGAAAGGCCCGCCCCTCCCCAGACCTCGAGTTCAGCCAAAACCTCCC<br>GLNVALHISGLNGLNLYSGLYPROPROLEUPROARGPROARGVALGLNPROLYSPROPRO | (1020)  |
|-----|--|---------|
|     | CATGGGGCAGCAGAAAACTCATTGTCCCCTTCCTCTAATTAAAAAAGATAGAAACTGTCT<br>HISGLYALAALAGLUASNSERLEUSERPROSERSERASNEND                   | (1080)  |
| 320 | TTTTCAATAAAAAGCACTGTGGATTTCTGCCCTCCTGATGTGCATATCCGTACTTCCATG   | (1140)  |
|     | AGGTGTTTTCTGTGTGCAGAACATTGTCACCTCCTGAGGCTGTGGGCCACAGCCACCTCT   | (1200)  |
|     | GCATCTTCGAACTCAGCCATGTGGTCAACATCTGGAGTTTTTGGTCTCCTCAGAGAGCTC   | (1260)  |
|     | GCATCTTCGAACTCAGCCAT&TGGTCAACATCTGGTCTACACCAATCCTACACCACCGAGC  | (1320)  |
|     | CATCACACCAGTAAGGAGAAGCAATATAAGTGTGATTGCAAGAATGGTAGAGGACCGAGC   | (1.000) |
|     | ACAGAAATCTTAGAGATTTCTTGTCCCCTCTCAGGTCATGTGTAGATGCGATAAATCAAG   | (1380)  |
|     | TGATTGGTGTGCCTGGGTCTCACTACAAGCAGCCTATCTGCTTAAGAGACTCTGGAGTTT   | (1440)  |
|     | TGATIGGIGIGCOGGICTCARTACAAGAAGAATAAAACTCAAATAAAACTT  | (1500)  |
|     | CTTATGTGCCCTGGTGGACACTTGCCCACCATCCTGTGAGTAAAAGTGAAATAAAAGCTT   | (1000)  |
|     | TGAC (1504)  |         |
|     |  |         |

FIG. 2-2

| 1 GCCCGACGAGCCATGGTTGCTGGGAGCGACGCGGGGCGGGC |
|---|
|---|

27 SerCysPheSerGinGinIleTyrGiyVaiVaiTyrGiyAsnVaiThrPheHisVaiProSerAsnVaiProLeuLysGiuVaiLeuTrp 56 ---CHO---

57 LystysGlnLysAspLysValAlaGluLeuGluAsnSerGluPheArgAlaPheSerSerPheLysAsnArgValTyrLeuAspThrVal 86

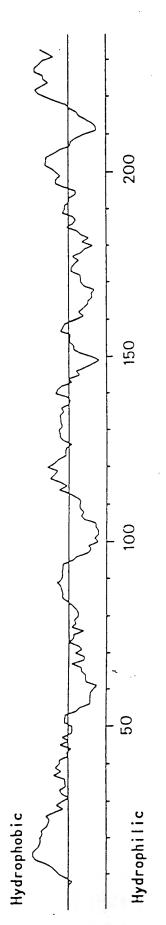
SerGlySerLeuThrIleTyrAsnLeuThrSerSerAspGluAspGluTyrGluMetGluSerProAsnIleThrAspThrMetLysPhe 116 271 TCAGGTAGCCTCACTATCTACAACTTAACATCATCAGATGAAGATGAGTATGAAATGGAATCGCCAAATATTACTGATACCATGAAGTTC 360

237 LeuEnd

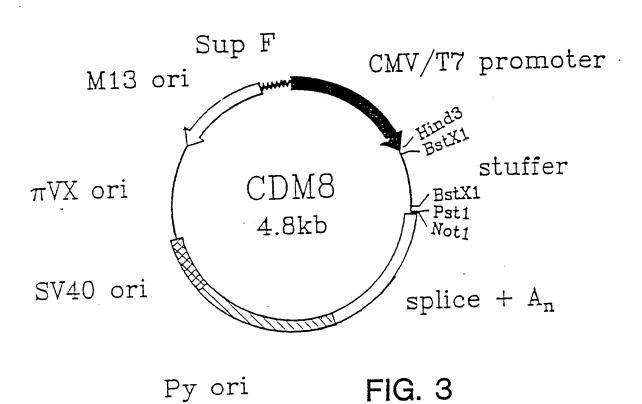
811 AAGATGAAGACAACAGCATAACTAAATTATTTTAAAAACTAAAAAGCCATCTGATTTCTCATTT 874

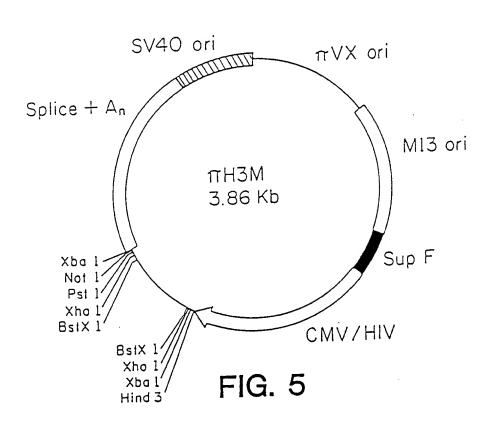
FIG. 4A

FIG. 4B



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GGCGTAATCT GCTGCTTGCA AACAAAAAA CCACCGCTAC CAGCGGTGGT TTGTTTGCCG GATCAAGAGC TACCAACTCT TTTTCCGAAG GTAACTGGCT TCAGCAGAGC GCAGATACCA AATACTGTCC TTCTAGTGTA GCCGTAGTTA 101 GGCCACCACT TCAAGAACTC TGTAGCACCG CCTACATACC TCGCTCTGCT 151 AATCCTGTTA CCAGTGGCTG CTGCCAGTGG CGATAAGTCG TGTCTTACCG 201 GGTTGGACTC AAGACGATAG TTACCGGATA AGGCGCAGCG GTCGGGCTGA 251 ACGGGGGGTT CGTGCACACA GCCCAGCTTG GAGCGAACGA CCTACACCGA 301 ACTGAGATAC CTACAGCGTG AGCATTGAGA AAGCGCCACG CTTCCCGAAG 351 GGAGAAAGGC GGACAGGTAT CCGGTAAGCG GCAGGGTCGG AACAGGAGAG 401 CGCACGAGGG AGCTTCCAGG GGGAAACGCC TGGTATCTTT ATAGTCCTGT CGGGTTTCGC CACCTCTGAC TTGAGCGTCG ATTTTTGTGA TGCTCGTCAG 501 GGGGGGGGAG CCTATGGAAA AACGCCAGCA ACGCAAGCTA GCTTCTAGCT 551 AGAAATTGTA AACGTTAATA TTTTGTTAAA ATTCGCGTTA AATTTTTGTT 601 AAATCAGCTC ATTITTTAAC CAATAGGCCG AAATCGGCAA AATCCCTTAT 651 AAATCAAAAG AATAGCCCGA GATAGGGTTG AGTGTTGTTC CAGTTTGGAA 701 CAAGAGTCCA CTATTAAAGA ACGTGGACTC CAACGTCAAA GGGCGAAAAA 751 CCGTCTATCA GGGCGATGGC CGCCCACTAC GTGAACCATC ACCCAAATCA 801 AGTTTTTTGG GGTCGAGGTG CCGTAAAGCA CTAAATCGGA ACCCTAAAGG 851 GAGCCCCCGA TTTAGAGCTT GACGGGGAAA GCCGGCGAAC GTGGCGAGAA 901 AGGAAGGGAA GAAAGCGAAA GGAGCGGGCG CTAGGGCGCT GGCAAGTGTA GCGGTCACGC TGCGCGTAAC CACCACACCC GCCGCGCTTA ATGCGCCGCT 1001 ACAGGGCGCG TACTATGGTT GCTTTGACGA GCACGTATAA CGTGCTTTCC

FIG. 6-1

TCGTTGGAAT CAGAGCGGGA GCTAAACAGG AGGCCGATTA AAGGGATTTT 1101 AGACAGGAAC GGTACGCCAG CTGGATCACC GCGGTCTTTC TCAACGTAAC 1151 ACTITACAGE GGEGGGTCAT TTGATATGAT GEGECCEGET TECEGATAAG 1201 GGAGCAGGCC AGTAAAAGCA TTACCCGTGG TGGGGTTCCC GAGCGGCCAA 1251 AGGGAGCAGA CTCTAAATCT GCCGTCATCG ACTTCGAAGG TTCGAATCCT 1301 TCCCCCACCA CCATCACTTT CAAAAGTCCG AAAGAATCTG CTCCCTGCTT 1351 GTGTGTTGGA GGTCGCTGAG TAGTGCGCGA GTAAAATTTA AGCTACAACA 1401 AGGCAAGGCT TGACCGACAA TTGCATGAAG AATCTGCTTA GGGTTAGGCG 1451 TTTTGCGCTG CTTCGCGATG TACGGGCCAG ATATACGCGT TGACATTGAT 1501 TATTGACTAG TTATTAATAG TAATCAATTA CGGGGTCATT AGTTCATAGC 1551 CCATATATGG AGTTCCGCGT TACATAACTT ACGGTAAATG GCCCGCCTGG 1601 CTGACCGCCC AACGACCCCC GCCCATTGAC GTCAATAATG ACGTATGTTC 1651 CCATAGTAAC GCCAATAGGG ACTTTCCATT GACGTCAATG GGTGGACTAT 1701 TTACGGTAAA CTGCCCACTT GGCAGTACAT CAAGTGTATC ATATGCCAAG 1751 TACGCCCCCT ATTGACGTCA ATGACGGTAA ATGGCCCGCC TGGCATTATG 1801 CCCAGTACAT GACCTTATGG GACTTTCCTA CTTGGCAGTA CATCTACGTA 1851 TTAGTCATCG CTATTACCAT GGTGATGCGG TTTTGGCAGT ACATCAATGG 1901 GCGTGGATAG CGGTTTGACT CACGGGGATT TCCAAGTCTC CACCCCATTG 1951 ACGTCAATGG GAGTTTGTTT TGGCACCAAA ATCAACGGGA CTTTCCAAAA 2001 TGTCGTAACA ACTCCGCCCC ATTGACGCAA ATGGGCGGAA TTCCTGGGCG 2051 GGACTGGGGA GTGGCGAGCC CTCAGATGCT GCATATAAGC AGCTGCTTTT 2101 TGCCTGTACT GGGTCTCTCT GGTTAGACCA GATCTGAGCC TGGGAGCTCT 2151 CTGGCTAACT AGAGAACCCA CTGCTTAAGC CTCAATAAAG CTTCTAGAGA 2201 TCCCTCGACC TCGAGATCCA TTGTGCTGGC GCGGATTCTT TATCACTGAT

FIG. 6-2

AAGTTGGTGG ACATATTATG TTTATCAGTG ATAAAGTGTC AAGCATGACA 2301 AAGTTGCAGC CGAATACAGT GATCCGTGCC GCCCTAGACC TGTTGAACGA GGTCGGCGTA GACGGTCTGA CGACACGCAA ACTGGCGGAA CGGTTGGGGG 2401 TTCAGCAGCC GGCGCTTTAC TGGCACTTCA GGAACAAGCG GGCGCTGCTC 2451 GACGCACTGG CCGAAGCCAT GCTGGCGGAG AATCATAGCA CTTCGGTGCC 2501 GAGAGCCGAC GACGACTGGC GCTCATTTCT GACTGGGAAT GCCCGCAGCT 2551 TCAGGCAGGC GCTGCTCGCC TACCGCCAGC ACAATGGATC TCGAGGGATC 2601 TTCCATACCT ACCAGTTCTG CGCCTGCAGG TCGCGGCCGC GACTCTAGAG 2651 GATCTTTGTG AAGGAACCTT ACTTCTGTGG TGTGACATAA TTGGACAAAC 2701 TACCTACAGA GATTTAAAGC TCTAAGGTAA ATATAAAATT TTTAAGTGTA 2751 TAATGTGTTA AACTACTGAT TCTAATTGTT TGTGTATTTT AGATTCCAAC 2801 CTATGGAACT-GATGAATGGG AGCAGTGGTG GAATGCCTTT AATGAGGAAA 2851 ACCTGTTTTG CTCAGAAGAA ATGCCATCTA GTGATGATGA GGCTACTGCT 2901 GACTCTCAAC ATTCTACTCC TCCAAAAAAG AAGAGAAAGG TAGAAGACCC 2951 CAAGGACTTT CCTTCAGAAT TGCTAAGTTT TTTGAGTCAT GCTGTGTTTA 3001 GTAATAGAAC TCTTGCTTGC TTTGCTATTT ACACCACAAA GGAAAAAGCT 3051 GCACTGCTAT ACAAGAAAAT TATGGAAAAA TATTCTGTAA CCTTTATAAG 3101 TAGGCATAAC AGTTATAATC ATAACATACT GTTTTTTCTT ACTCCACACA 3151 GGCATAGAGT GTCTGCTATT AATAACTATG CTCAAAAATT GTGTACCTTT 3201 AGCTTTTAA TITGTAAAGG GGTTAATAAG GAATATTTGA TGTATAGTGC 3251 CTTGACTAGA GATCATAATC AGCCATACCA CATTTGTAGA GGTTTTACTT 3301 GCTTTAAAAA ACCTCCCACA CCTCCCCCTG AACCTGAAAC ATAAAATGAA 3351 TGCAATTGTT GTTGTTAACT TGTTTATTGC AGCTTATAAT GGTTACAAAT 3401 AAAGCAATAG CATCACAAAT TTCACAAATA AAGCATTTTT TTCACTGCAT

FIG. 6-3

TCTAGTTGTG GTTTGTCCAA ACTCATCAAT GTATCTTATC ATGTCTGGAT

CCTGTGGAAT GTGTGTCAGT TAGGGTGTGG AAAGTCCCCA GGCTCCCCAG

CAGGCAGAAG TATGCAAAGC ATGCATCTCA ATTAGTCAGC AACCAGGTGT

GGAAAGTCCC CAGGCTCCCC AGCAGGCAGA AGTATGCAAA GCATGCATCT

CAATTAGTCA GCAACCATAG TCCCGCCCCT AACTCCGCCC ATCCCGCCCC

TAACTCCGCC CAGTTCCGCC CATTCTCCGC CCCATGGCTG ACTAATTTTT

TTTATTTATG CAGAGGCCGA GGCCGCCTCG GCCTCTGAGC TATTCCAGAA

SS1 GTAGTGAGGA GGCTTTTTTG GAGGCCTAGG CTTTTGCAAA AAGCTAATTC

FIG. 6-4

|      | AGACTCTCAGGCCTTGGCAGGTGCGTCTTTCAGTTCCCCTCACACTTCGGGTTCCTCGGG   | (60)   |
|------|--|--------|
|      | GAGGAGGGGCTGGAACCCTÁGCCCATCGTCAGGACAAAGÁTGCTCAGGCTGCTCTTGGCT<br>METLEUARGLEULEUALA   | (120)  |
|      | CTCAACTTATTCCCTTCAATTCAAGTAACAGGAAACAAGATTTTGGTGAAGCAGTCGCCC<br>LEUASNLEUPHEPROSERILEGLNVALTHRGLYASNLYSILELEUVALLYSGLNSERPRO     | (180)  |
| 10   | ATGCTTGTAGCGTACGACAÁTGCGGTCAACCTTAGCTGCÁAGTATTCCTÁCAATCTCTTC METI EI VAL AL ATYRÁSPASNÁLAVALÁSNLEUSERCYSLYSTYRSERTYRÁSNLEUPHE    | (240)  |
| 30   | TCAAGGGAGTTCCGGGCATCCCTTCACAAAGGACTGGATAGTGCTGTGGAAGTCTGTGTT SERARGGLUPHEARGALASERLEUHISLYSGLYLEUASPSERALAVALGLUVALCYSVAL        | (300)  |
| . 50 | GTATATGGGÄATTACTCCCÄGCAGCTTCÄGGTTTACTCÄÄÄÄÄÄCGGGGTTCÄÄCTGTGÄT<br>VALTYRGLYASNTYRSERGLNGLNLEUGLNVALTYRSERLYSTHRGLYPHEÄSNCYSÄSP    | (360)  |
| 70   | CHO GGGAAATTGGGCAATGAATCAGTGACATTCTACCTCCAGAATTTGTATGTTAACCAAACA GLYLYSLEUGLYASNGLUSERVALTHRPHETYRLEUGLNASNLEUTYRVALASNGLNTHRCHO | (420)  |
| 90   | GATATTTACTTCTGCAAAATTGAAGTTATGTATCCTCCTCCTTACCTAGACAATGAGAAG ASPILETYRPHECYSLYSILEGLUVALMETTYRPROPROPROTYRLEUASPASNGLULYS        | (480)  |
| 110  | AGCAATGGAACCATTATCCATGTGAAAGGGAAACACCTTTGTCCAAGTCCCCTATTTCCC<br>SERASNGLYTHRILEILEHISVALLYSGLYLYSHISLEUCYSPROSERPROLEUPHEPRO     | (540)  |
|      | GGACCTTCTAAGCCCTTTTGGGTGCTGGTGGTGGTGGAGTCCTGGCTTGCTATAGC<br>GLYPROSERLYSPROPHETRPVALLEUVALVALGLYGLYVALLEUALACYSTYRSER            | (600)  |
| 130  | TTGCTAGTAACAGTGGCCTTTATTATTTTCTGGGTGAGGAGTAAGAGGAGCAGGCTCCTG<br>LEULEUVALTHRVALALAPHEILEILEPHETRPVALARGSERLYSARGSERARGLEULEU     | (660)  |
| 150  | CACAGTGACTACATGAACATGACTCCCCGCCGCCCCCGGGCCCACCCGCAAGCATTACCAG<br>HISSERASPTYRMETASNMETTHRPROARGARGPROGLYPROTHRARGLYSHISTYRGLN    | (720)  |
| 170  | CCCTATGCCCCACCACGCGACTTCGCAGCCTATCGCTCCTGACACGGACGCCTATCCAGA   | (780)  |
| 190  | PROTYRALAPROPROARGASPPHEALAALATTRAKGSERU 202.  AGCCAGCCGGCTGGCAGCCCCCATCTGCTCAATATCACTGCTCTGGATAGGAAATGACCG                      | (840)  |
|      | CCATCTCCAGCCGGCCACCTCAGCCCCTGTTGGGCCACCAATTTTTCTCGAGTG   | (900)  |
|      | ACTAGACCAÁATATCAAGAŤCATTTTGAGÁCTCTGAAATGAAGTAAAAGÁGATTTCCTGŤ   | (960)  |
|      | GACAGGCCAAGTCTTACAGTGCCATGGCCCACATTCCAACTTACCATGTACTTAGTGACT   | (1020) |
|      | TGACTGAGAAGTTAGGGTAGAAAACAAAAAAGGGGAGTGGATTCTGGGAGCCTCTTCCCTTT   | (1080) |

FIG. 7-1

| CTCACTCACCTGCACATCTCAGTCAAGCAAAGTGTGGTATCCACAGACATTTTAGTTGCA   | (1140) |
|--|--------|
| CTCACTCACCTGCACATCTCAGTCAAGCAAAGTGTGGTTTACTCTTTTGGTTAGTG<br>GAAGAAAGGCTAGGAAATCATTCCTTTTGGTTAAATGGGTGTTTAATCTTTTGGTTAGTG | (1200) |
| GAAGAAAGGCTAGGAAATCATTCCTTTTGGTTAAATGGGTGTTAAAAGGCATATTTAAAAAACCATTA<br>GGTTAAACGGGGTAAGTTAGAGTAGGGGGGGGGG               | (1260) |
| AAACACTGTCTCCCACTCATGAAATGAGCCACGTAGTTCCTATTTAATGCTGTTTTCCTT   | (1320) |
| TAGTTTAGAAATACATAGACATTGTCTTTTATGAATTCTGATCATATTTAGTCATTTTGA   | (1380) |
| CCAAATGAGGGATTTGGTCAAATGAGGGATTCCCTCAAAGCAATATCAGGTAAACCAAGT   | (1440) |
| TGCTTTCCTCACTCCCTGTCATGAGGCTTCAGTGTTAATGTTCACAATATACTTTCGAAA   | (1500) |
| GAATAAAATÄGTTC (1514)  |        |
| CANTAMATAGITC (1014)   |        |

FIG. 7-2

| TAGACCCAGÁGAGGCTCAGCTGCACTCGCCCGGCTGGGAGAGCTGGGTGTGGGGAACATG MET   | (60)   |
|--|--------|
| GCCGGGCCTCCGAGGCTCCTGCTGCTGCCCCTGCTTCTGGCGCTGGCTCGCGGCCTGCCT<br>ALAGLYPROPROARGLEULEULEULEULEULEULEULEULEULEULEULEULEUL  | (120)  |
| COCCOCTOCTGCCCAAGGTAAGAGCTTCCCAGGCTCTCCATGGCCACAGCTCCGGAGC   | (180)  |
| GLYALALEUALAALAGLN / TCTCCCTGCCCCATGAGCTCAGAGCCCCCAGTCTGAGCCACAGCCCCCAGGAAGC   | (240)  |
| GGGTGGGGTGCTGAGCGGCCTCCAGTGTCTGAGGACTCATTTAAGAGAAGGAAAAAGGGT   | (300)  |
| GGGTGGGTGCTGAGCGGCCTCCAGTGTCTATGGCAGGCCGCTGCTTTGGGAGGAAGAAG<br>GGACCCGGTGGGGAGTGGCCGGGGCTGTCCAGGCAGGGCCGCTGCTTTGGGAGGAAGAAG  | (360)  |
| GGACCCGGTGGGGAGTGGCCGGGGCTGTCCAGGCAGCACACCCACAGCCGGTGCCCAGATC  | (420)  |
| TGCTCCATGCCCCGTAAGGCACCGTGTCTTTGGCGACATGTCAGCCCTGGGCTGTCTCAG   | (480)  |
| TGCTCCATGCCCCGTAAGGCACCGTGTCTTTGGGGAGGAGGACATTCTCTGTCCTTCTGGCCAG GGCCCCACCATCCCCACCACTGTCCCCTGCAGGGAGGACATTCTCTGTCCTTCTGGCCAG  | (540)  |
| GGCCCCACCATCCCCACCACTGTCCCCTGCAGGGTGCAGCAGTCTCCCCACTGCACGACTGT  ACTGATGGTGACAGCCCAGGTCCTCCCAGAGGTGCAGCAGTCTCCCCACTGCACGACTGT  GLUVALGLNGLNSERPROHISCYSTHRTHRVA   | (600)  |
| CCCCGTGGGAGCCTCCGTCAACATCACCTGCTCCACCAGCGGGGGCCTGCGTGGGATCTA   | (660)  |
| CCTGAGGCAGCTCGGGCCACAGCCCCAAGACATCATTTACTACGAGGACGGGGTGGTGCC   | (720)  |
| CACTACGGACAGACGGTTCCGGGGCCGCATCGACTTCTCAGGGTCCCAGGACAACCTGAC OTHRTHRASPARGARGPHEARGGLYARGILEASPPHESERGLYSERGLNASPASNLEUTHCHO   | (780)  |
| TATCACCATGCACCGCCTGCAGCTGTCGGACACTGGCACCTACACCTGCCAGGCCATCAC RILETHRWETHISARGLEUGLNLEUSERASPTHRGLYTHRTYRTHRCYSGLNALAILETH  | (840)  |
| GGAGGTCAATGTCTACGGCTCCGGCACCCTGGTCCTGGTGACAGAGGAACAGTCCCAAGG<br>GGAGGTCAATGTCTACGGCTCCGGCACCCTGGTCCTGGTGACAGAGGAACAGTCCCAAGG<br>RGLUVALASNVALTYRGLYSERGLYTHRLEUVALLEUVALTHRGLUGLUGLNSERGLNGL   | (900)  |
| ATGGCACAGATGCTCGGACGCCCCACCAAGGGCCTCTGCCCTGCCCCACCGACAGG<br>YTRPHISARGCYSSERASPALAPROPROARGALASERALALEUPROALAPROPROTHRGL   | (960)  |
| CTCCGCCTCCCTGACCCGCAGACAGCCTCTGCCCTCCCTGACCCGCCAGCAGCCCTCTGCCCCCCGCCAGCAGCCCTCTGCCCCCCGCCAGCAGCAGCCCTCTGCCCCTGACCCGCCAGCAGCAGCCCTCTGCCCCTGACCCGCCAGCAGCAGCCCTCTGCCCCTGACCCGCCAGCAGCAGCCCTCTGCCCTGACCCGCCAGCAGCAGCAGCCCTCTGCCCTGACCCGCCAGCAGCAGCCCTCTGCCCTGACCCGCCAGCAGCAGCCCTCTGCCCTGACCCGCCAGCAGCAGCCCTCTGCCCTGACCCGCCAGCAGCAGCCCTCTGCCCTGACCCCGCCAGCAGCAGCAGCCCTCTGCCCTGACCCCGCCAGCAGCAGCAGCCCTCTGCCCTGACCCCGCCAGCAGCAGCAGCCCTCTGCCCTGACCCCTCTGACCCCGCCAGCAGCAGCCCTCTGCCCTGACCCCGCCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCA | (1020) |
| CCTCCCTGCGGCCCTGGCGGTGATCTCCTTCCTCCTCGGGCTGGGCCTGGGGGTGGCGTG  ALEUPROALAALALEUALAVALILESERPHELEULEUGLYLEUGLYLEUGLYVALALACY   | (1080) |

| TGTGCTGGCGAGGACACAGATAAAGAAACTGTGCTCGTGGCGGGATAAGAATTCGGCGGC<br>SVALLEUALAARGTHRGLNILELYSLYSLEUCYSSERTRPARGASPLYSASNSERALAAL | (1140) |
|--|--------|
| ATGTGTGTGTACGAGGACATGTCGCACAGCCGCTGCAACACGCTGTCCTCCCCCAACCA<br>ACYSVALVALTYRGLUASPWETSERHISSERARGCYSASNTHRLEUSERSERPROASNGL  | (1200) |
| GTACCAGTGÁCCCAGTGGGCCCCTGCACGTCCCGCCTGTGGTCCCCCCAGCACCTTCCCT   | (1260) |
| GCCCCACCATGCCCCCACCCTGCCACACCCCTCACCCTGCTGTCCTCCCACGGCTGCAG  | (1320) |
| CAGAGTTTGAAGGGCCCAGCEGTGCCCAGCTCCAAGCAGACACACAGGCAGTGGCCAGGC   | (1380) |
| CCCACGGTGCTTCTCAGTGGACAATGATGCCTCCTCCGGGAAGCCTTCCCTGCCCAGCCC   | (1440) |
| ACGCCGCCACCGGGAGGAAGCCTGACTGTCCTTTGGCTGCATCTCCCGACCATGGCCAAG   | (1500) |
| GAGGGCTTTTCTGTGGGATGGGCCTGGCACGCGGCCCTCTCCTGTCAGTGCCGGCCCACC   | (1560) |
| CACCAGCAGGCCCCCAACCCCCAGGCAGCCCGGCAGAGGACGAGACCAGTCCCCC  | (1620) |
| ACCCAGCCGTACCAGAAATAAAGGCTTCTGTGCTTCAAAAAAAA   |        |

FIG. 8-2

|     |  | (60)   |
|-----|--|--------|
|     | CCCAAATGTCTCAGAATGTATGTCCCAGAAACCTGTGGCTGCTTCAACCATTGTCTCAACCATTGTCCCAGAAACCTGTGGCTGCTCACAAACCTGTGGCTGCTCAAACCTGTGAAACCTGAAACCTGTGAAAACCTGTGAAAAACCTGTGAAAACCTGTGAAAACCTGAAAAACCTGTGAAAAACCTGAAAAACAAAACAAAAAAAA   | (, 00) |
|     | TOSTOCTOCTTCTGCAGACAGTCAAGCTGCAGCTCCCCCAAAGGCTGTGTGTG  | (120)  |
|     | TIGAGCCCCCGTGGATCAACGTGCTCCAGGAGGACTCTGTGACTCTGACATGCCAGGGGG  TTGAGCCCCCGTGGATCAACGTGCTCCAGGAGGACTCTGTGACTCTGACATGCCAGGGGG  EUGLUPROPROTRPILEASNVALLEUGLNGLUASPSERVALTHRLEUTHRCYSGLNGLYA   | (180)  |
| 10  | EUGLUPROPROTRPILEASNVALLEUGLINGLOASI SSTANDER *  CTCGCAGCCCTGAGAGCGACTCCATTCAGTGGTTCCACAATGGGAATCTCATTCCCACCC  CTCGCAGCCCTGAGAGCGACTCCATTCAGTGGTTCCACAATGGGAATCTCATTCCCACCC  CTCGCAGCCCTGAGAGCGACTCCATTCAGTGGTTCCACAATGGGAATCTCATTCCCACCC  CTCGCAGCCCTGAGAGCGACTCCATTCAGTGGTTCCACAATGGGAATCTCATTCCCACCC  | (240)  |
| 30  | CTCGCAGCCCTGAGAGCGACTCCATTCAGTGGTTCCACAATGGGAATCTCATTGCCACGCCACTACACGTGCTACACGTGCCACTACACACAC  | (300)  |
| 50  | ACACGCAGCCCAGCTACAGGTTCAAGGCCAACAACAATGACAGCGGGGAGTACACGTGCC  ACACGCAGCCCAGCTACAGGTTCAAGGCCAACAACAATGACAGCGGGGAGTACACGTGCC  ACACGCAGCCCAGCC  |        |
| 50  | AGACTGGCCAGACCAGCCTCAGCGACCCTGTGCATCTGACTGTGCTTCCGAATGGCTGG  AGACTGGCCAGACCAGCCTCAGCGACCCTGTGCATCTGACTGA   | (360)  |
| 70  | LNIHRGLYGLNIHRSERLEGGEGGGGGCACA  | (420)  |
| 90  | TGCTCCAGACCCCTCACCTGGAGTTCCAGGAGGGAGACCATCATGCTGAGGTGAGTGGTGAGGTGAGGTGAGGTGAGGTGGAGGGAGACCATCATGCTGAGGTGGAGGTGAGTGGTGAGGTGGAGAGACCATCATGCTGAGGTGGAGGTGGAGGTGGAGGTGGAGGTGGAGGTGGAGGTGGAGGTGGAGAGGTGGAGGTGGAGGTGGAGGTGGAGAGTGCCAGGAGATGCCCAGGAGATGCCAGGAGAGCCAGAGATGCCAGGAGATGCCAGGAGATGCCAGGAGATGCCAGGAGATGCCAGGAGATGCCAGGAGTGCAGAGATGCCAGGAGATGCCAGGAGATGCCAGGAGATGCCAGGAGAGCCAGAGATGCCAGGAGATGCCAGGAGATGCCAGGAGAGCCAGAGATGCCAGGAGAGCCAGAGAGCCAGAGAGCAGAGAGCAGAGAGCCAGAGAGCCAGAGAGCCAGAGAGCAGAGAGCAGAGAGCAGAGAGCAGAGAGCAGAGAGAGCAGAGAGAGCAGAGAGAGCAGAGAGAGCAGAGAGAGAGAGCAGAGAGAGAGCAG  | (480)  |
| 110 | GCTGGAAGGACAAGCCTCTGGTCAAGGTCACATTCTTCCAGAATGGAAAATCCCAGAAAT<br>GCTGGAAGGACAAGCCTCTGGTCAAGGTCACATTCTTCCAGAATGGAAAATCCCAGAAAT<br>ERTRPLYSASPLYSPROLEUVALLYSVALTHRPHEPHEGLNASNGLYLYSSERGLNLYSP   |        |
| 110 |  | (540)  |
| 130 | HESERARGLEUASPERUTENT LOSS (SEE SECONDA CONTINUE DE LA CONTINUE DE | (600)  |
| 150 | ACCACTGCACAGGAAACATAGGCTACACGCTGTTCTCATCCAAGCCTGTGACCATGTTTCTCATCCAAGCCTGTGACCATGTTTCTCCCTGTGACCATGTTCTCCCTGTGGTCATTG  | (660)  |
| 170 | TCCAAGTGCCCAGCATGGGCAGCTCTTCACCAATGGGGATCATTGTGGCTGTGGTGTGTGT  | •••    |
| 170 | CGACTGCTGTAGCAGCCATTGTTGCTGCTGTAGTGCCCTTGATCTACTGCAGGAAAAAGC   | (720)  |
| 190 | LATHRALAVALALATIEVADIO   | (780)  |
| 210 | ) RGILESERALANSIASITATOA CAGOTG  | (840)  |
| 230 | AAATGATTGCCATCAGAAAGAGACAACTTGAAGAAACCAACAATGACTATGAAACAGCTG<br>AAATGATTGCCATCAGAAAGAGACAACTTGAAGAAACCAACAATGACTATGAAACAGCTG<br>AAATGATTGCCATCAGAAAACAACATCTACC  | (000)  |
|     | ACGGCGGCTACATGACTCTGAACCCCAGGGCACCTACTGACGATGATAAVAACATTCTTACATGACGATGATAATAAVAACATTCTTACATGACGATGATAATAAVAACATTCTTACATGACGATGATAATAATAATAATAATAATAATAATAATAATAATA  | (900)  |
| 25  | O SPORTORITHMENT   |        |

FIG. 9-1

| TGACTCTTCCTCCCAACGACCATGTCAACAGTAATAACTAAAGAGTAACGTTATGCCATG  | (960)  |
|---|--------|
| TGACTCTTCCTCCCAACGACCATGTCAACAGTTAACAGTTCAACAGTTCAACAGTTCAACAGTTCAACAGTTCAACAGTTCAACAGTTCAACAGTTCAACAGTTCAACAGTTCAACAGTTCAACAGTTCAACAGTTCAACAGAGAGGGGGAATTGTTAAAGGAAAATTTGGTCATACTCTCAGCTTGCTGAGTGGATGACAAAAAGAGGGGGAATTGTTAAAGGAAAATTTGGTCATACTCTCTCAGCTTGCTGAGTGGATGACAAAAAGAGGGGGAATTGTTAAAGGAAAATTTGGTCAACAGTTGAACAGAGAGGGGAATTGTTAAAGGAAAATTTGGTCAACAGTTGAACAGAGAGAG | (1020) |
| TGGTCATACTCTCAGCTTGCTGAGTGGATGACAAAACCACCTGGCCCTTAGAAATAGCTT  | (1080) |
| TTAAATGGAGACTGGAAAAATCCTGAGCAAACAAAACCACCTGGCCCTTAGAAATAGCTT  | (1140) |
| TAACTTTGCŤTAAACTACAÁACACAAGCAÁAACTTCACGĠGGTCATACTÁCATACAAGCÁ  | (1200) |
| TAAGCAAAACTTAACTTGGATCATTTCTGGTAAATGCTTATGTTAGAAATAAGACAACCC  | (1260) |
| CAGCCAATCÁCAAGCAGCCTACTAÁCATATAATTAGGTGÁCTAGGGACTTTCTAAGAAGÁ  | (1320) |
| TACCTACCCCCAAAAAACAATTATGTAATTGAAAACCAACC   | (1380) |
| CCACATTTTCCCAATAAATACTTGCCTGTGACATTTTGCCACTGGAACACTAAACTTCAT  | (1440) |
| GAATTGCGCCTCAGATTTTTCCTTTAACATCTTTTTTTTT  | (1500) |
| TTACCCAGGCTGGAGTGCAGTGGTGCTATCTTGGCTCACTGCAAACCCGCCTCCCAGGTT  | (1560) |
| TAAGCGATTCTCATGCCTCAGCCTCCCAGTAGCTGGGATTAGAGGCATGTGCCATCATAC  | (1620) |
| CCAGCTAATTTTTGTATTTTTTTTTTTTTTTTAGTAGAGACAGGGTTTCGCAATGTT   | (1680) |
| GGCCAGGCGATCTCGAACTTCTGGCCTCTAGCGATCTGCCCGCCTCGGCCTCCCAAAGT   | (1740) |
| GCCAGGCCGATCTCGTTGTCTCTCTTTAACATCTTCTTTCCTATGCC  GCTGGGATGACCAGCATCAGCCCCAATGTCCAGCCTCTTTAACATCTTCTTTCCTATGCCT  | (1800) |
| CTCTCTGTGGATCCCTACTGCTGGTTTCTGCCTTCTCCATGCTGAGAACAAAATCACCTA  | (1860) |
| TTCACTGCTTATGCAGTCGGAAGCTCCAGAAGAACAAAGAGCCCAATTACCAGAACCACA  | (1920) |
| TTAAGTCTCCATTGTTTTGCCTTGGGATTTGAGAAGAGAATTAGAGAGGTGAGGATCTGG  | (1980) |
| TATTTCCTGGACTAAATTCCCCTTGGGGAAGACGAAGGGATGCTGCAGTTCCAAAAGAGA  | (2040) |
| AGGACTCTTCCAGAGTCATCTACCTGAGTCCCAAAGCTCCCTGTCTTGACATCAAGAC  | (2100) |
| AATATGGTCCCAAATGACTGACTGCACCTTCTGTGCCTCAGCCGTTCTTGACATCAAGAA  | (2160) |
| TCTTCTGTTCCACATCACACACCCAATACAATTAGTCAAACCACTGTTATTAACAGATG   | (2220) |
| TAGCAACATGAGAAACGCTTATGTTACAGGTTACATGAGAGCAATCATGTAAGTCTATAT  | (2280) |
| GACTTCAGAÄATGTTAAAATAGACTAACCTCTAACAACAÄATTAAAAGTGATTGTTTCAÄ  |        |
| GGTGAAAAAA (2290)   |        |

FIG. 9-2

- 1 AAAGACAAACTGCACCCACTGAACTCCGCAGCTAGCATCCAAATCAGCCCTTGAGATTTGAGGCCTTGGAGACTCAGGAGTTTTGAGAGC
  - Met.ThrThrProArgAsnSerValAsnGlyThrPheProAlaGluProMetLysGlyProIleAlaMetGlnSerGlyProLysPro 91 AAAATGACAACACCCAGAAATTCAGTAAATGGGACTTTCCCGGCAGAGCCAATGAAAGGCCCTATTGCTATGCAATCTGGTCCAAAACCA
- LeuPheArgArgMetSerSerLeuValGlyProThrGlnSerPhePheMetArgGluSerLysThrLeuGlyAlaValGlnIleMetAsn 181 CICTICAGGAGGATGICTICACTGGTGGGCCCCCACGCAAAGCTICTICATGAGGGAAICTAAGACTTTGGGGGGTGICCAGATTATGAAT
- GlyLeuPheHisIleAlaLeuGlyGlyLeuLeuMetIleProAläGlyIleTyrAlaProIleCysValThrValTrpTyrProLeuTrp
- GGAGGCATTATGTATATTACCGGATCACTCCTGGCAGCAACGGAAAAACTCCAGGAAGTGTTTGGTCAAAGGAAAATGATAATG GlyGlyIleMetTyrIleIleSerGlySerLeuLeuAlaAlaThrGluLysAsnSerArgLysCysLeuValLysGlyLysMetIleMet
- AsnSerLeuSerLeuPheAlaAlaIleSerGlyMetIleLeuSerIleMetAspIleLeuAsnIleLysIleSerHisPheLeuLysMet 451 AATTCATTGAGCCTCTTTGCTGCCATTTCTGGAATGATTCTTTCAATCATGGACATACTTAAATATTAAAAATTTCCCATTTTTAAAAATG
- GluSerLeuAsnPheIleArgAlaHisThrProTyrIleAsnIleTyrAsnCysGluProAlaAsnProSerGluLysAsnSerProSer 341 GAGAGTCTGAATTTTAGAGCTCACACACATATATTAACATATACAACTGTGAACCAGCTAATCCCTCTGAGAAAACTCCCATC
- ThrGlnTyrCysTyrSerIleGlnSerLeuPheLeuGlyIleLeuSerValMetLeuIlePheAlaPhePheGlnGluLeuValIleAla 631 ACCCAATACTGTTACAGCATACAATCTCTGTTCTTGGGCATTTTGTCAGTGATGCTGATCTTTGCCTTCTTCCAGGAACTTGTAATAGCT

FIG. 10A-1

GlyIleValGluAsnGluTrpLysArgThrCysSerArgProLysSerAsnIleValLeuLeuLeuSerAlaGluGluLysLysGluGlnThr 

IleGluIleLysGluGluValValGlyLeuThrGluThrSerSerGlnProLysAsnGluGluAspIleGluIleIleProIleGlnGlu

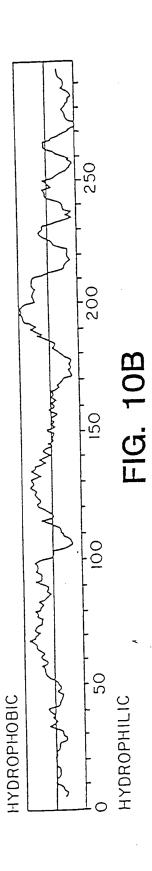
GluglugluglusluthrGluThrAsnPheProGluProProGlnAspGlnGluSerSerProIleGluAsnAspSerSerProEnd 297 GAGGAAGAAGAAGAAGAAGAGGAGCTTTCCAGAACCTCCCCAAGATCAGGAATCCTCACCAATAGAAAATGACAGCTCTCCTTAAGTG

1081 CATACGCACCACATCTCTATCTGGCCTTTGCATGGAGTGACCATAGCTCCTTCTCTCTTTACATTGAATGTAGAGAATGTAGCCATTGTAG

1171 CAGCTTGTGTTGTCACGCTTCTTCTTTTGAGCAACTTTCTTACACTGAAGAAAGGCAGAATGAGTGCTTCAGAATGTGATTTCCTACTAA

1441 ATGATGCAAAAGGGCTTTAGAGCACAATGGATCT 1474

FIG. 10A-2



- MetAlaProSerSerProArgProAlaLeuProAlaLeuLeuValLeuLeuGlyAlaLeuPhePro CTCAGCCTCGCTATGGCTCCCAGCAGCCCCGGGCCCGCGCTGCCGGCACTCCTGGTCCTGGTCGGGGGCTCTGTTCCCA
  - (+11)GGACCTGGCAAŤGCĆCAGACATCTGTGTCCCCCTCAAAAGTC GlyProGlyAsnAlaGlnThrSerValSerProSerLysVal
- IleLeuProArgGlyGlySerValLeuValThrCysSerThrSerCysAspGlnProLysLeuLeuGlyIleGluThr ATCCTGCCCCGGGGAGGCTCCGTGCTGGTGACATGCACCTCCTGTGACCAGCCCAAGTTGTTGGGCATAGAGACC

CCGTTGCCTAAAAAGGAGTTGCTCCTGCCTGGGAACAACGGG ProLeuProLysLysGluLeuLeuLeuProGlyAsnAsnArg

AAGGTGTATGAACTGAGCAATGTGCAAGAAAGATAGCCAAECAATGTGCTATTCAAACTGCCCTGATGGGCAGTCAACA LysValTyrGluLeuSerAsnValGlnGluAspSerGlnProMetCysTyrSerAsnCysProAspGlyGlnSerThr 241

GCTAAAACCTTCCTCACCGTGTACTGGACTCCAGAACGGGTG AlaLysThrPheLeuThrValTyrTrpThrProGluArgVal

GAACT GGCACCCCTCCCCTTT GGCAGCCAGT GGGCAAGAACCTTACCCTACGCTGCCAGGTGGAGGGTGGGGCACCC GluLeuAlaProLeuProSerTrpGlnProValGlyLysAsnLeuThrLeuArgCysGlnValGluGlyGlyAlaPro 361

CTGAAACGGGAGCCAGCTGTGGGGGAGCCCGCTGAGGTCACGACCACGGTGCTGGTGAGGAGAGATCACCATGGAGCC LeulysArgGluProAlaValGlyGluProAlaGluValThrThrThrValLeuValArgAspHisHisGlyAla 481

AATTTCTCGTGCCGCACTGAACTGGACCTGCGGCCCCAAGGGAsnPheSerCysArgThrGluLeuAspLeuArgProGlnGly(+171)

CTGGAGCTGTTTGAGAACACCTCGGCCCCCTACCAGCTCCAGACCTTTGTCCTGCCAGCGACTCCCCCCACACTTGTC eugluLeuPhogluAsnThrSerAlaProTyrGlnLeuGlnThrPheValLeuProAlaThrProProGlnLeuVal ---CH0---601

AGCCCCGGGTCCTAGAGGTGGACACGCAGGGGACCGTGGTC SerProArgValLeuGluValAspThrGlnGlyThrValVal (+211)

FIG. 11-1

- CysSerLeuAspGlyLeuPheProValSerGluAlaGlnValHisLeuAlaLeuGlyAspGlnArgLeuAsnProThr TGTTCCCTGGACGGGCTGTTCCCAGTCTCGGAGGCCCAGGTCCACCTGGCACTGGGGGACCAGAGGTTGAACCCCACA GTCACCTATGGCAACGACTCCTTCTCGGCCAAGGCCTCAGTC ValThrTyrGlyAsnAspSerPheSerAlaLysAlaSerVal
  - (+251)
- AGTGTGACCGCAGAGGACGAGCCACCCAGCGGCTGACGTGTGCAGTAATACTGGGGAACCAGAGCCAGGAGACACTG SerValThrAlaGluAspGluGlyThrGlnArgLeuThrCysAlaValIleLeuGlyAsnGlnSerGlnGluThrLeu 841

GInThrValThrIleTyrSerPheProAlaProAsnValIle (+291)CAGACAGTGACCATCTACAGCTTTCCGGCGCCCAACGTGATT

CTGACGAAGCCAGAGGTCTCAGAAGGGACCGAGGTGACÁGTGAAGTGTGAGGCCCACCCTAGAGCCAAGGTGACGCTG LeuThrLysProGluValSerGluGlyThrGluValThrValLysCysGluAlaHisProArgAlaLysValThrLeu

AsnGlyValProAlaGinProLeuGlyProArgAlaGinLeu AATGGGGTTCCAGCCAACTGGGCCCGAGGGCCCAGCTC (+331)

LeuleulysAlaThrProGluAspAsnGlyArgSerPheSerCysSerAlaThrLeuGluValAlaGlyGInLeuIle

HisLysAsnGlnThrArgGluLeuArgValLeuTyrGlyPro (+371)CACAAGAACCAGACCCGGGAGCTTCGTGTCCTGTATGGCCCC

**ArgLeuAspGluArgAspCysProGlyAsnTrpThrTrpProGluAsnSerGlnGlnThrProMetCysGlnAlaTrp** 1201 CGACTGGACGAGGGATTGTCCGGGAAACTGGACGTGGCCÁGAAATTCCCAGCAGACTCCAATGTGCCAGGCTTGG

GlyAsnProLeuProGluLeuLysCysLeuLysAspGlyThr (+411)GGGAACCCATTGCCCGAGCTCAAGTGTCTAAAGGATGGCACT

PheproLeuprolleGlyGluSerValThrValThrArgAspLeuGluGlyThrTyrLeuCysArgAlaArgSerThr 

GInGlyGluValThrArgGluValThrValAsnValLeuSer CAAGGGGAGGTCACCCGCGAGGTGACCGTGAATGTGCTCTCC

ProArgTyrGluIleValIleIleThrValValAlaAlaAlaVaIIleMetGlyThrAlaGlyLeuSerThrTyrLeu 1441 CCCCGGTATGAGATTGTCATCATCACTGTGGTAGCAGCCGCAGTCATAATGGGCACTGCAGGCCTCAGCACGTACCTC TyrAsnArgGlnArgLysIleLysLysTyrArgLeuGlnGln TATAACCGCCAGCGGAAGATCAAGAAATACAGACTACAAÄAG

1561 GCCCAAAAAGGGACCCCCATGAAACCGAACACACAGCCACGCCTCCCTGAACCTATCCCGGGACAGGGCCTCTTCCT (+507) AlaginLysglyThrProMetLysProAsnThrGinAlaThrProPro

CGGCCTTCCCATATTGGTGGCAGTGGTGCCACACACAGA

1801 GGCCACGCATCTGATCTGTCACATGACTAAGCCAAGAGGAAGG AACAGCATTGGGGCCATGGTACCTGCACACCTAAAACACTA

FIG. 11-3

..GGAGAGTC TGACCACCAT GCCACCTCCT CGCCTCCTCT TCTTCCTCCT CTTCCTCACC CCCATGGAAG TCAGGCCCGA GGAACCTCTA GTGGTGAAGG TGGAAGAGGG AGATAACGCT GTGCTGCAGT GCCTCAAGGG GACCTCAGAT 101 GGCCCCACTC AGCAGCTGAC CTGGTCTCGG GAGTCCCCGC TTAAACCCTT 151 CTTAAAACTC AGCCTGGGGC TGCCAGGCCT GGGAATCCAC ATGAGGCCCC 201 TGGCCATCTG GCTTTTCATC TTCAACGTCT CTCAACAGAT GGGGGGCTTC 251 TACCTGTGCC AGCCGGGGCC CCCCTCTGAG AAGGCCTGGC AGCCTGGCTG 301 GACAGTCAAT GTGGAGGGCA GCGGGGAGCT GTTCCGGTGG AATGTTTCGG 351 ACCTAGGTGG CCTGGGCTGT GGCCTGAAGA ACAGGTCCTC AGAGGGCCCCC AGCTCCCCTT CCGGGAAGCT CATGAGCCCC AAGCTGTATG TGTGGGCCAA 451 AGACCGCCCT GAGATCTGGG AGGGAGAGCC TCCGTGTGTC CCACCGAGGG 501 ACAGCCTGAA CCAGAGCCTC AGCCAGGACC TCACCATGGC CCCTGGCTCC ACACTCTGGC TGTCCTGTGG GGTACCCCCT GACTCTGTGT CCAGGGGCCC 601 CCTCTCCTGG ACCCATGTGC ACCCCAAGGG GCCTAAGTCA TTGCTGAGCC TAGAGCTGAA GGACGATCGC CCGGCCAGAG ATATGTGGGT AATGGAGACG 701 GGTCTGTTGT TGCCCCGGGC CACAGCTCAA GACGCTGGAA AGTATTATTG 751 TCACCGTGGC AACCTGACCA TGTCATTCCA CCTGGAGATC ACTGCTCGGC CAGTACTATG GCACTGGCTG CTGAGGACTG GTGGCTGGAA GGTCTCAGCT 851 GTGACTTTGG CTTATCTGAT CTTCTGCCTG TGTTCCCTTG TGGGCATTCT 901 TCATCTTCAA AGAGCCCTGG TCCTGAGGAG GAAAAGAAAG CGAATGACTG 951 ACCCCACCAG GAGATTCTTC AAAGTGACGC CTCCCCCAGG AAGCGGGCCC 1001 CAGAACCAGT ACGGGAACGT GCTGTCTCTC CCCACACCCA CCTCAGGCCT 1051 1101 CGGACGCGCC CAGCGTTGGG CCGCAGGCCT GGGGGGCACT GCCCCGTCTT 1151 ATGGAAACCC GAGCAGCGAC GTCCAGGCGG ATGGAGCCTT GGGGTCCCGG

FIG. 12-1

1201 AGCCGCCGGG AGTGGGCCCA GAAGAAGAGG AAGGGGAGGG CTATGAGGAA 1251 CCTGACAGTG AGGAGGACTC CGAGTTCTAT GAGAACGACT CCAACCTTGG GCAGGACCAG CTCTCCCAGG ATGGCAGCGG CTACGAGAAC CCTGAGGATG 1301 AGCCCCTGGG TCCTGAGGAT GAAGACTCCT TCTCCAACGC TGAGTCTTAT 1351 1401 GAGAACGAGG ATGAAGAGCT GACCCAGCCG GTCGCCAGGA CAATGGACTT CCTGAGCCCT CATGGGTCAG CCTGGGACCC CAGCCGGGAA GCAACCTCCC TGGGGTCCCA GTCCTATGAG GATATGAGAG GAATCCTGTA TGCAGCCCCC CAGCTCCGCT\_ECATTCGGGG CCAGCCTGGA CCCAATCATG AGGAAGATGC AGACTCTTAT GAGAACATGG ATAATCCCGA TGGGCCAGAC CCAGCCTGGG 1601 GAGGAGGGG CCGCATGGGC ACCTGGAGCA CCAGGTGATC CTCAGGTGGC CAGCCTGGAT CTCCTCAAGT CCCCAAGATT CACACCTGAC TCTGAAATCT GAAGACCTCG AGCAGATGAT GCCAACCTCT GGAGCAATGT TGCTTAGGAT GTGTGCATGT GTGTAAGTGT GTGTGTGTGT GTGTGTGTGT 1801 ATACATGCCA GTGACACTTC CAGTCCCCTT TGTATTCCTT AAATAAACTC 1851 1901 AATGAGCTCT TCCAAAAAAA AAAA

FIG. 12-2

ACAAAGACAA ACTGCACCCA CTGAACTCCG CAGCTAGCAT CCAAATCAGC CCTTGAGATT TGAGGCCTTG GAGACTCAGG AGTTTTGAGA GCAAAATGAC AACACCCAGA AATTCAGTAA ATGGGACTTT CCCGGCAGAG CCAATGAAAG GCCCTATTGC TATGCAATCT GGTCCAAAAC CACTCTTCAG GAGGATGTCT 101 TCACTGGTGG GCCCCACGCA AAGCTTCTTC ATGAGGGAAT CTAAGACTTT 151 GGGGGCTGTC CAGATTATGA ATGGGCTCTT CCACATTGCC CTGGGGGGTC 201 251 TTCTGATGAT CCCAGCAGGG ATCTATGCAC CCATCTGTGT GACTGTGTGG TACCCTCTCT GGGGAGGCAT TATGTATATT ATTTCCGGAT CACTCCTGGC 301 AGCAACGGAG AAAAACTCCA GGAAGTGTTT GGTCAAAGGA AAAATGATAA 351 TGAATTCATT GAGCCTCTTT GCTGCCATTT CTGGAATGAT TCTTTCAATC 401 ATGGACATAC, TTAATATTAA AATTTCCCAT TTTTTAAAAA TGGAGAGTCT 451 501 GAATTTATT AGAGCTCACA CACCATATAT TAACATATAC AACTGTGAAC. CAGCTAATCC CTCTGAGAAA AACTCCCCAT CTACCCAATA CTGTTACAGC 551 ATACAATCTC TGTTCTTGGG CATTTTGTCA GTGATGCTGA TCTTTGCCTT 601 CTTCCAGGAA CTTGTAATAG CTGGCATCGT TGAGAATGAA TGGAAAAGAA 651 CGTGCTCCAG ACCCAAATCT AACATAGTTC TCCTGTCAGC ACAAGAAAAA AAAGAACAGA CTATTGAAAT AAAAGAAGAA GTGGTTGGGC TAACTGAAAC 801 ATCTTCCCAA CCAAAGAATG AAGAAGACAT TGAAATTATT CCAATCCAAG AAGAGGAAGA AGAAGAAACA GAGACGAACT TTCCAGAACC TCCCCAAGAT 851 CAGGAATCCT CACCAATAGA AAATGACAGC TCTCCTTAAG TGATTTCTTC 951 TGTTTCTGT TTCCTTTTTT AAACATTAGT GTTCATAGCT TCCAAGAGAC 1051 ATGCTGACTT TCATTTCTTG AGGTACTCTG CACATACGCA CCACATCTCT

FIG. 13-1

|      | ATCTGGCCTT 1 | FACITOCACT     | CACCATAGCT | CCTTCTCTCT  | TACATTGAAT |
|------|--------------|----------------|------------|-------------|------------|
| 1101 | ATCTGGCCTT   | I GCA I GGAG I | GACCATAGET | CCTTOTOTOTO | TOTAL      |
| 1151 | GTAGAGAATG   | TAGCCATTGT     | AGCAGCTTGT | GTTGTCACGC  | HCHCHH     |
| 1101 | GAGCAACTTT   | OTT LCACTOA    | ACAAACGCAG | AATGAGTGCT  | TCAGAATGTG |
| 1201 | GAGCAACTII   | CITACACTGA     | AGAMAGCAG  | 701101010   | ACTATITIT  |
| 1251 | ATTTCCTACT   | AACCTGTTCC     | TTGGATAGGC | TTTTAGIAI   | AGIAIIIII  |
| 1201 | TTTGTCATTT   | ディナイクルエクルク     | CAACCAGGGA | GACTGCACCT  | GATGGAAAAG |
| 1301 | THGICALLI    | 1C1CCA1CAG     | CACCITOGAI |             | TTATTCCACA |
| 1351 | ATATATGACT   | GCTTCATGAC     | ATTCCTAAAC | TAICHIHH    | TIATICCACA |
| 1001 | TCTACGTTTT   | TOOTOGACTO     | CCTTTTTATC | ATCCTTAAAA  | CAATGATGCA |
|      |              |                |            |             |            |
| 1451 | AAAGGGCTTT   | AGAGCACAAT     | GGATCT     |             |            |
|      |              |                |            |             |            |

FIG. 13-2

1 CCCAAATGTC TCAGAATGTA TGTCCCAGAA ACCTGTGGCT GCTTCAACCA 51 TTGACAGTTT TGCTGCTGCT GGCTTCTGCA GACAGTCAAG CTGCAGCTCC 101 CCCAAAGGCT GTGCTGAAAC TTGAGCCCCC GTGGATCAAC GTGCTCCAGG 151 AGGACTCTGT GACTCTGACA TGCCAGGGGG CTCGCAGCCC TGAGAGCGAC 201 TCCATTCAGT GGTTCCACAA TGGGAATCTC ATTCCCACCC ACACGCAGCC 251 CAGCTACAGG TTCAAGGCCA ACAACAATGA CAGCGGGGAG TACACGTGCC 301 AGACTGGCCA GACCAGCCTC AGCGACCCTG TGCATCTGAC TGTGCTTTCC 351 GAATGGCTGG TGCTCCAGAC CCCTCACCTG GAGTTCCAGG AGGGAGAAAC 401 CATCATGCTG AGGTGCCACA GCTGGAAGGA CAAGCCTCTG GTCAAGGTCA 451 CATTCTTCCA GAATGGAAAA TCCCAGAAAT TCTCCCGTTT GGATCCCACC 501 TTCTCCATCC CACAAGCAAA CCACAGTCAC AGTGGTGATT ACCACTGCAC AGGAAACATA GGCTACACGC TGTTCTCATC CAAGCCTGTG ACCATCACTG TCCAAGTGCC CAGCATGGGC AGCTCTTCAC CAATGGGGAT CATTGTGGCT 651 GTGGTCATTG CGACTGCTGT AGCAGCCATT GTTGCTGCTG TAGTGGCCTT 701 GATCTACTGC AGGAAAAAGC GGATTTCAGC CAATTCCACT GATCCTGTGA 751 AGGCTGCCCA ATTTGAGCCA CCTGGACGTC AAATGATTGC CATCAGAAAG AGACAACTTG AAGAAACCAA CAATGACTAT GAAACAGCTG ACGGCGGCTA CATGACTCTG AACCCCAGGG CACCTACTGA CGATGATAAA AACATCTACC 801 901 TGACTCTTCC TCCCAACGAC CATGTCAACA GTAATAACTA AAGAGTAACG TTATGCCATG TGGTCATACT CTCAGCTTGC TGAGTGGATG ACAAAAAGAG 1001 GGGAATTGTT AAAGGAAAAT TTAAATGGAG ACTGGAAAAA TCCTGAGCAA ACAAAACCAC CTGGCCCTTA GAAATAGCTT TAACTTTGCT TAAACTACAA 1101 ACACAAGCAA AACTTCACGG GGTCATACTA CATACAAGCA TAAGCAAAAC TTAACTTGGA TCATTTCTGG TAAATGCTTA TGTTAGAAAT AAGACAACCC 1151 CAGCCAATCA CAAGCAGCCT ACTAACATAT AATTAGGTGA CTAGGGACTT 1201 TCTAAGAAGA TACCTACCCC CAAAAAACAA TTATGTAATT GAAAACCAAC 1301 CGATTGCCTT TATTTTGCTT CCACATTTTC CCAATAAATA CTTGCCTGTG ACATTTTGCC ACTGGAACAC TAAACTTCAT GAATTGCGCC TCAGATTTTT 1351 CCTITAACAT CTTTTTTTT TTTGACAGAG TCTCAATCTG TTACCCAGGC 1401 TGGAGTGCAG TGGTGCTATC TTGGCTCACT GCAAACCCGC CTCCCAGGTT 1451 TAAGCGATTC TCATGCCTCA GCCTCCCAGT AGCTGGGATT AGAGGCATGT 1501 GCCATCATAC CCAGCTAATT TTTGTATTTT TTATTTTTT TTTTTAGTAG 1551 AGACAGGGTT TCGCAATGTT GGCCAGGCCG ATCTCGAACT TCTGGCCTCT AGCGATCTGC CCGCCTCGGC CTCCCAAAGT GCTGGGATGA CCAGCATCAG 1601 1651

FIG. 15-1

CCCCAATGTC CAGCCTCTTT AACATCTTCT TTCCTATGCC CTCTCTGTGG ATCCCTACTG CTGGTTTCTG CCTTCTCCAT GCTGAGAACA AAATCACCTA 1701 1801 TTCACTGCTT ATGCAGTCGG AAGCTCCAGA AGAACAAAGA GCCCAATTAC TTAGAGAGGT GAGGATCTGG TATTTCCTGG ACTAAATTCC CCTTGGGGAA 1851 GACGAAGGGA TGCTGCAGTT CCAAAAGAGA AGGACTCTTC CAGAGTCATC 1901 TACCTGAGTC CCAAAGCTCC CTGTCCTGAA AGCCACAGAC AATATGGTCC 1951 2051 CAAATGACTG ACTGCACCTT CTGTGCCTCA GCCGTTCTTG ACATCAAGAA 2101 TCTTCTGTTC CACATCCACA CAGCCAATAC AATTAGTCAA ACCACTGTTA 2151 TTAACAGATG TAGCAACATG AGAAACGCTT ATGTTACAGG TTACATGAGA 2201 GCAATCATGT AAGTCTATAT GACTTCAGAA ATGTTAAAAT AGACTAACCT CTAACAACAA ATTAAAAGTG ATTGTTTCAA GGTGAAAAAA

FIG. 15-2

1 GCTGTGACTG CTGTGCTCTG GGCGCCACTC GCTCCAGGGA GTGATGGGAA TCCTGTCATT CTTACCTGTC CTTGCCACTG AGAGTGACTG GGCTGACTGC 101 AAGTCCCCCC AGCCTTGGGG TCATATGCTT CTGTGGACAG CTGTGCTATC 151 CCTGGCTCCT GTTGCTGGGA CACCTGCAGC TCCCCCAAAG GCTGTGCTGA 201 AACTCGAGCC CCAGTGGATC AACGTGCTCC AGGAGGACTC TGTGACTCTG 251 ACATGCCGGG GGACTCACAG CCCTGAGAGC GACTCCATTC AGTGGTTCCA 301 CAATGGGAAT CTCATTCCCA CCCACACGCA GCCCAGCTAC AGGTTCAAGG 351 CCAACAACAA TGACAGCGGG GAGTACACGT GCCAGACTGG CCAGACCAGC 401 CTCAGCGACC CTGTGCATCT GACTGTGCTT TCTGGTCAGT GGAGGAAGGC 451 CCCAGGGTGG ACCTGGGAGG GCCAGGACGG ATGAAATCTG CTTTCAGGCA 501 GAGGTTTGCA GGAAAGGGGG GTGGCCTGCT TACTGGGAAG TATCGCTGTG 551 AGTTGCCTCA GCACATATCA GTGGTTGTTT TTGCCTCAGT TCTGATTGAA 601 CAGAAGAAGG TTTCAAGGCC AAAAACAGGC AGCCAAGTGT GAGAGAAGCA 651 GAAGGAAATC CCTACTGCAT AAAACCCATT TCCATTTTAA TGGCAGAATT GAAAAGCACA GACCACAACT GAATCCTAGC CCTGGAAATG ACTCACTATA CAACATGATG AATTCATTTA ACCCTTGAGT TTCCATTTCT TCACCTGCTC 701 CGTGGGGCAG TAACGCCTCC CTCAGAGGCT TCTGGTGAGA ATCAGTGTTT 751 851 CCCTGCCCCC GCCCCGCCCT CCATGCCCCT TCTCCACGTT CTCACTGTGC TAGGTGCTCT TCTCTGTCTT TCTCTTCCAC CAGCCTGTGG GAAACCTGAG ATGAAAGTCG TGTCTTACCC ATCTTTGTAT TTCCAGCATC TGAAACTGGG 901 1001 CAGAGCTTAA TAAATATTTT GCTGGAGAGG TTGATGATCT TACAAAGCTC 1051 CCATTGAAAG GTGGCTCTCT GTAAAGCAAA GTTACAATGA GATTGTGATG 1101 AACATTGTCC TTGTGGCTTT TCACTTAGTC CCCTCCCTTC ACCTGAAGAG 1151 CAAATTTTCC TCAAAAGTAC ACAGCAAACG AATGACCCAC TGGTGACACT 1201 GTTGCCTTTA GACCCTGCTG GAAAGAAGCT CCACATTTAT TAACATTCCC 1251 GAAGTAAATT TATCAGGTAG CATTCATCAG GTAACATTTG TTGCACATTC 1301 ATGACTTTTC TACTGTCCAC AAAGGCATAT GTCCTTATCA TATGCGGACT 1351 CCTCGGTCAC ACTGGATTCT TCCTTCCCTC CTCGACATGG AAGAGATGGC 1401 ATCTTAGGGT CTCTTGTGTT CTTCCTGCAG AGGCCTGTCG GGCAGGAAAA 1451 GGCTGCAGCT GCCTTCCTGG GAGAAGGAGG AGATGAGTGT ATCCTGAACA 1501 CCTATTATGT GCTAGGGGCT ATTGTAGATA CATGACACTA TCATGCTCAT TTTCACGAAT GAGGAAACTG AGGCTCAGAA GACTTAAATT ATTTGCCCAA 1601 GAGTTATAAA TGACAGAGCC AGCATTAGAG TCCAGGACTG TCTGATTTCA GACCTAAGCT GTTCCCTCTG CACATCGTGT CCCACCAGTA AGGAAGATCT

FIG. 16-1

1701 GGGTCTCAGA GCTGAGCCAA GACCTCCCGG GTCCTCTGCG GTTTTTTGTG
1751 TCTTTCAGAG TGGCTGGTGC TCCAGACCCC TCACCTGGAG TTCCAGGAGG
1801 GAGAAACCAT CGTGCTGAGG TGCCACAGCT GGAAGGACAA GCCTCTGGTC
1851 AAGGTCACAT TCTTCCAGAA TGGAAAATCC AAGAAATTTT CCCGTTCGGA
1901 TCCCAACTTC TCCATCCCAC AAGCAAACCA CAGTCACAGT GGTGATTACC
1951 ACTGCACAGG AAACATAGGC TACACGCTGT ACTCATCCAA GCCTGTGACC
2001 ATCACTGTCC AAGCTCCCAG CTCTTCACCG ATGGGGATCA TTGTGGCTGT
2051 GGTCACTGGG ATTGCTGTAG CGGCCATTGT TGCTGCTGTA GTGGCCTTGA
2101 TCTACTGCAG GAAAAAGCGG ATTTCAGGTT TGTAGCTCCT CCCGGTCCCT

FIG. 16-2

1 GCCTCGCTCG GGCGCCCAGT GGTCCTGCCG CCTGGTCTCA CCTCGCCATG 51 GTTCGTCTGC CTCTGCAGTG CGTCCTCTGG GGCTGCTTGC TGACCGCTGT 101 CCATCCAGAA CCACCCACTG CATGCAGAGA AAAACAGTAC CTAATAAACA 151 GTCAGTGCTG TTCTTTGTGC CAGCCAGGAC AGAAACTGGT GAGTGACTGC ACAGAGTTCA CTGAAACGGA ATGCCTTCCT TGCGGTGAAA GCGAATTCCT AGACACCTGG AACAGAGAGA CACACTGCCA CCAGCACAAA TACTGCGACC 201 CCAACCTAGG GCTTCGGGTC CAGCAGAAGG GCACCTCAGA AACAGACACC 251 ATCTGCACCT GTGAAGAAGG CTGGCACTGT ACGAGTGAGG CCTGTGAGAG 301 CTGTGTCCTG CACCGCTCAT GCTCGCCCGG CTTTGGGGTC AAGCAGATTG 351 CTACAGGGGT TTCTGATACC ATCTGCGAGC CCTGCCCAGT CGGCTTCTTC 401 TCCAATGTGT CATCTGCTTT CGAAAAATGT CACCCTTGGA CAAGCTGTGA 451 GACCAAAGAC CTGGTTGTGC AACAGGCAGGC ACAAACAAGA CTGATGTTGT 501 CTGTGGTCCC CAGGATCGGC TGAGAGCCCT GGTGGTGATC CCCATCATCT 551 TCGGGATCCT GTTTGCCATC CTCTTGGTGC TGGTCTTTAT CAAAAAGGTG 601 701 GCCAAGAAGC CAACCAATAA GGCCCCCCAC CCCAAGCAGG AACCCCAGGA GATCAATTTT CCCGACGATC TTCCTGGCTC CAACACTGCT GCTCCAGTGC 801 AGGAGACTTT ACATGGATGC CAACCGGTCA CCCAGGAGGA TGGCAAAGAG 851 AGTCGCATCT CAGTGCAGGA GAGACAGTGA GGCTGCACCC ACCCAGGAGT 901 GTGGCCACGT GGGCAAACAG GCAGTTGGCC AGAGAGCCTG GTGCTGCTGC TGCAGGGGTG CAGGCAGAAG CGGGGAGCTA TGCCCAGTCA GTGCCAGCCC 951 CTC

FIG. 17